

Eastern Arizona Amateur Radio Society

EST. 1974

www.eaars.com

INC.

facebook.com/groups/eaars

Club Address: EAARS, PO Box 398, Solomon, AZ 85551



June, 2018

JOIN EAARS on Facebook

EAARS has a presence on Facebook and you are invited to **JOIN** the page. This is a great media to quickly share news, photos and events that are EAARS related or might be interesting to the members. If you utilize "Notifications" on the EAARS Facebook page, you can receive club updates AS THEY HAPPEN.

To reach the page, please visit **facebook.**

com/groups/eaars and **JOIN** the page. You must have a Facebook account to be part of the EAARS group.



EAARS Open Repeaters

PL 141.3 unless noted otherwise

Echolink: 614350 **IRLP:** 7787

Heliograph Peak at Safford, AZ:

146.860, 440.700 Linked

146.900, 447.8250 Not Linked

Jacks Peak at Silver City, NM:

145.210 Linked

West Peak at Ft Thomas, AZ:

145.350 Access to link to network

Pinal Peak at Globe, AZ:

145.410 Linked

South Mt at Alpine, AZ:

145.270 Linked

Caballo Mt at TorC, NM:

145.470 Linked

Greens Peak at Show Low, AZ

146.700 Linked

Little Florida at Deming, NM:

147.060 Linked

Mule Mt at Bisbee, AZ:

147.080 Linked

Mt Lemmon at Tucson, AZ

147.160 Linked

Guthrie Peak at Clifton, AZ:

147.280 Linked

Gals on the Air!

Calling all Gals of any class ... Join us every Monday night for the
Gals Night Net @ 7:30 pm (AZ) on the EAARS system!

Upcoming Events

*Would You like to see your event posted for the membership to see?
Email your information to emberfire@cox.net.*

June 23-24 ... Field Day
June 30 ... Bisbee Coaster Practice Run
July 4 ... Bisbee 4th of July Coaster run
July 21 ... SaguaroNTS Emergency Drill - Byron AA7BM
July 28 ... White Mountain Hamfest
Sept 1-3 ... Paradise Special Event-Training
Sept 29 ... RST HamFest
Sept 29 ... Nami Bike Event
Oct 7 ... Tucson Ham Picnic - Angie N7EMB, Chris N7JND, Don KD7UIZ
Oct 21 ... Making Strides Against Breast Cancer - Angie N7EMB
Nov 10 ... Alzheimer's Walk - Angie N7EMB
Apr 27, 2019 . Tucson Ham Picnic - Angie 7NEMB, Chris N7JND, Don KD7UIZ

Did you know that you can see the Public Service Opportunities on soazhamservice.net? The events are posted by dates and who leads them. If you are interested in participating or have any questions, please feel free to contact them.

WEEKLY EAARS' NETS

Every day:

Down Under Net - 4:15 am

Weather Net - 5:30 am

NTS Traffic Net - 6:30 pm

Sunday:

EAARS Net - 7:00 pm

Monday:

Gals Night Net - 7:30 pm

Wednesday:

*Skywarn Net - During Monsoon, Every Wednesday at 7:30 pm,
Off Season, every second Wednesday of month at 7:30 pm*

Saturday:

*ERC (Emergency Response Communications) Net -8:45 am ,
2nd Saturday of the month (20-25 min duration)*

EAARS Officers and Staff

Board Officers

President	Dave Wells	N7AM
Vice President	Dan Quaintance	AF7EF
Secretary/Treasurer	Larry Griggs	N5BG

Staff

Site Trustee	Joe Montierth	K7JEM
Net Manager	Chris Buchanan	N7JND
Newsletter Editor	Angie Buchanan	N7EMB

Net Control Operators

Rick W8YBM	1st Sunday
Angie N7EMB	2nd Sunday
Mike W7IJ	3rd Sunday
Chris N7JND	4th Sunday

Next EAARS Meeting
Tuesday, July 17th, 2018
6:30 pm
Search and Rescue, Thatcher

RST and Laurel VEC have teamed together to bring to Tucson the first 'FEE FREE' Amateur Radio Testing Service in AZ. RST has been offering FREE exams and fast licensing service since 2012.

If you are looking to get your Technician License or upgrade, no more excuses! It's FREE! So start studying and we will see you at the next test session!

All testing dates are on a Tuesday at 7:00 pm @
 Hardesty Mid-Town Police Building
 1100 S Alvernon, Tucson 85711

June 11, 2018
 July 9, 2018
 August 13, 2018

September 10, 2018
 October 8, 2018
 November 12, 2018
 December 10, 2018

GOOD LUCK! Hear You on the Air!

New EAARS Members!

☆
welcome

John N7HY
David KI7VBY

AWESOME

A Heartfelt THANK YOU

A few weeks ago I was chatting with some friends on the radio and mentioned I was struggling a bit because my AC went out on my trailer/home. A simple conversation turned into a great act of kindness!

I would like to THANK ALL that helped me to get a new A/C unit for my trailer/home. I can't say it enough THANK YOU! THANK YOU from the BOTTOM of my HEART!! A special THANK YOU to Lee (KG7KBH) for making it happen! Saturday, May 26th the new A/C unit was up and mounted with the help of Mark W7GMO, Bronz AG7LM and Max KI7TIG who got it up top of the trailer, placed and mounted. The only thing left to do is mount the Control unit and thermostat, and that will arrive between May 29th - 31st. I will be able to survive summer! Again, Thank you ALL so very much!

Fred WW6F and Roscoe

Thank
You!



The Mysterious Magic Eye Tube

A little history on a really cool vacuum tube

by Chris N7JND



A magic eye tube, is a vacuum tube which gives a visual indication of the amplitude of an electronic signal, such as an audio output, radio-frequency signal strength, or other functions. The magic eye (also called a cat's eye, or tuning eye) is a specific type of such a tube with a circular display such as the EM34. Its first broad application was a tuning indicator in radio receivers, to give an indication of the relative strength of the received radio signal, to show when a radio station was properly tuned in.

The magic eye tube was the first in a line of development of cathode ray type tuning indicators developed as a cheaper alternative to the needle movement meters. It was not until the 1960s that needle meters were made economically enough in Japan to displace indicator tubes. Tuning indicator tubes were used in vacuum tube receivers from around 1936 to 1980 before vacuum tubes were replaced by transistors in radios.

The "magic eye" valve for tuning radio receivers was invented in 1932 by Allen B. DuMont (who spent most of the 1930s improving the lifetime of cathode ray tubes, and ultimately formed the DuMont Television Network). It is a miniature cathode ray tube, usually with a built-in triode signal amplifier. It usually glows bright green and the glowing ends grow to meet in the middle as the voltage on a control grid increases. It is used in a circuit that drives the grid with a voltage that changes with signal strength; as the tuning knob is turned, the gap in the eye becomes narrowest when a station is tuned in correctly.

Magic eye tubes were also used as the recording level indicator for many tape recorders.

If you ever have the chance to view the Magic Eye tube, I think you will find it quite fascinating. Here are a couple photos of devices that utilized the Magic Eye tube.



Rodeo-Chedeski Fire (2002) and Amateur Radio

The newsletter story submitted by Pete, KA7TUR, reminded me of a specific event in my "amateur radio life".

I have been involved with various levels and aspects of emergency communications from field assignments to being part of the Arizona Dept of Emergency Management and Emergency Communications for 2 years. We also lived in the immediate vicinity affected by the Rodeo-Chedeski Fire in 2002. Our home was about 1000' from the burned area of that fire.

The story of Pete, KA7TUR, and an earthquake in Northern California, brought to mind a specific time in my experiences.

This is not an event worth bragging about, but it is an example of how, in general, we all do things in amateur radio. Over the last 25+ years, I can say that I have spent thousands of hours working in various aspects of learning, training, training others, and using emergency communication equipment and methods, but the time involved in actually doing something that made a difference can be measured in seconds to a few minutes.

During the Rodeo-Chedeski Fire (466,000 acres, burning for about 10 days), south of and approaching Show Low and Pinetop-Lakeside communities, I received a 2:00 AM phone call one Thursday morning from the Show Low Police Chief. By 7:00 AM, thirty ham radio operators were present at the Show Low Police Dept to be directed by the area law enforcement officials.

Things were changing fast as the fire was moving at the rate of several hundred feet per minute at times and the wind direction was variable. The fire was "spotting" at a distance one mile ahead of the body of the fire. Evacuation orders were eminent for 10,000+ people in the two communities.

The evacuation changed from Thursday to being postponed, pending the direction of the wind, for the next few hours and days. The amateur operators were assigned shifts to cover the alternate communications methods for Show Low and the Holbrook/Navajo County Emergency Operations Center (EOC) and to be prepared to help with contacting the community in case of a need.

I ended up asked to shadow the Mayor of Show Low, Gene Kelly, as he was the only person who could actually issue the order for the evacuation for the city of Show Low and he needed to keep in touch with all fire officials, as well as law enforcement agencies adjacent to and associated with the City of Show Low. So I stayed "in the shadow of" the mayor for three days. Cell phones worked most

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Rodeo-Chedeski Fire

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Cell phones worked most of the time for those in authority, although law enforcement "confiscated" the first priority for cell phone availability and most of the time, private individuals found their cell phones nearly useless. Also, if the fire were to come into the City of Show Low, the main landline phone systems ran into and out of the downtown Show Low area and were at risk of destruction.

Then on the 3rd day of pre-evacuation planning, on a Saturday, the direction of the wind changed. At about 6:30 PM, the evacuation orders for Show Low and Pinetop-Lakeside were about to be announced. However, minutes before the order was to be given, the route for evacuees to follow was determined to be inadequate and a change needed to be made and approved by the Mayor of Show Low.

Apparently, the Mayor's cell phone was called but did not connect to him. Having a dual-band radio with me and being "in the shadow of" the Mayor, he and I both heard the message from the Navajo County EOC amateur station, "Does anyone know the location of the Mayor of Show Low?" I responded with my call sign, "This is KB7QXQ and that the Mayor is right here." The Mayor took the radio, identified himself, and responded to the county Emergency Manager, the evacuation route was discussed, changed, approved by the Mayor, and the Mayor ordered the evacuation of Show Low. The Mayor of Pinetop-Lakeside simultaneously ordered the evacuation of his community.

During the ten-days of this fire event, about thirty amateur radio operators donated and expended approximately 3,000 man-hours and drove more than 10,000 miles to provide their service.

The point of this message is that associated with thousands of hours of communication preparations, in my entire life, so far, I have spent 2 to 3 minutes doing communications that were actually needed to satisfy the need of an actual emergency situation. That is what we do. That is what "you" do. We plan, plan, plan, practice, practice, practice, and charge our batteries, again and again. We hope we are prepared when the need arises.

Chris McBride KB7QXQ

(CrisMcBride, KB7QXQ, was the president of the Kachina Amateur Radio Club in Show Low in 2002-2005, and later the DEC and RACES Radio Officer for Navajo County 2005 through 2007.)

SaguaroNTS EMERGENCY DRILL

The SaguaroNTS Traffic Net will use the EAARS system to hold an **Emergency Drill** beginning approximately 1315-1330 (1:15-1:30 pm) and to run until 1400-1415 (2:00-2:15 pm) at the latest on **Saturday July 21, 2018**

We (the SaguaroNTS Traffic Net) have received authorization from the Pima County Office of Emergency Management to involve their hospital communications team immediately following their own net on Saturday, July 21. Their net may end anywhere from 1315 to 1330, and the hospital communication team will come on the air in conjunction with the SaguaroNTS Traffic Net at that time.

Thank you for your consideration.

73 Byron McCabe AA7BM
Manager SaguaroNTS Net

Technician Pool Changeover Warning

CAUTION: A brand new Technician question pool will go into effect on **July 1, 2018!**

Recommendation: Study the current Technician question pool, and take your exam by June 30, 2018!

If you know someone who would like to get their ham radio license, now is the time! Maybe they have already put in some study time and are almost ready to pass their exam? Don't waste the study time - get it done before the changeover. Otherwise, they'll have to start over with a new question pool!

Great news! They have plenty of time to study the current question pool and pass their Technician exam by June 30th, before the new pool goes into effect!

Puerto Rico Radio Amateurs Honored by Lawmakers on “el Día del Radioaficionado”

ARRL - 05/17/2018

The Amateur Radio community of Puerto Rico was honored by the island's House of Representatives on May 8 in San Juan as part of the celebration of el Día del Radioaficionado (Radio Amateur Day), observed each year on the second Tuesday of May. The office of Representative Nestor Alonso-Vega, WP4BL, prepared a resolution. ARRL Puerto Rico Section Manager Oscar Resto, KP4RF, was among those on hand for the occasion. Puerto Rico Governor Ricardo A. Roselló Nevares had issued a proclamation earlier, noting that Puerto Rico's 4,000 Amateur Radio operators “contribute to the art and science of radio,” and serve as “goodwill ambassadors of our island.”

Amateur Radio Day offers “the opportunity to exalt the valuable service of the radio amateurs of Puerto Rico and their contribution to the development and evolution of this important means of communication in our society,” the proclamation declared.

ARRL was recognized for providing Amateur Radio equipment following last fall's hurricanes as part of the Ham Aid program, and for organizing the deployment of ham radio volunteers to help with Puerto Rico's recovery.

At the event, Alonso related how — as a visually impaired youngster — local radio amateurs helped him get his license, enabling him to make new friends on the island and around the world that he now considers family members. Resto presented Alonso with one of the ARRL Ham Aid kits, similar to those sent to Puerto Rico with volunteers after Hurricane Maria last September. Resto later spoke about efforts to establish communication with the American Red Cross, the Puerto Rico Electric Power Authority, and various agencies and hospitals on Puerto Rico, and he outlined preparations under way for the 2018 hurricane season.

The Governor's 2018 proclamation was read and presented to the ARRL Puerto Rico Section team for its work during post-Maria relief and recovery efforts, as well as its active role in emergency nets and monthly meetings. The resolution of the House of Representatives in recognition of Radio Amateur Day was read, and personalized copies given to the amateurs present.

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Puerto Rico Radio Amateurs - Continued from page 9

The resolution noted that, when Puerto Rico lost communication following Maria's devastation, "it was the radio amateurs who first sent health-and-welfare messages to friends and families...and eventually served as volunteers [helping] agencies like the American Red Cross, FEMA, hospitals, and the Puerto Rico Energy Power Authority with emergency communications." Resto accepted a resolution dedicated to the radio amateurs ARRL had recruited to deploy on behalf of the American Red Cross, with plans to deliver it to team members at Hamvention.

The President of the House, Carlos "Johnny" Méndez, offered gratitude for the help of radio amateurs in the wake of Hurricane Maria and hinted at the development of legislation favoring Amateur Radio in Puerto Rico. Congratulatory messages to the Amateur Radio community also were heard on several radio stations as well as distributed by social media. — Thanks to ARRL Puerto Rico Section PIO Angel Santana, WP3GW

"Last Man Standing" Moving to Fox Network

ARRL - 05/14/2018

There will be a season 7 of the TV show "Last Man Standing" in which Tim Allen — a real radio amateur — plays Mike Baxter, KAOXTT. The primary difference is that the show now will appear on the Fox Network. A year ago, ABC axed "Last Man Standing," which had attracted more than 8.3 million viewers. The network did not own the show but was licensing it from 20th Century Fox.

John Amodeo, NN6JA, has been a co-executive producer, producer, or supervising producer of the comedy and was instrumental in Allen's getting his ham radio license in 2014; more than 2 dozen members of the crew were also inspired by the show's Amateur Radio component to get licensed.

Allen tweeted news of the Fox reboot on May 11. "Thanks to all you guys for the support," Allen said. "We are back." In a statement, Allen said, "When I heard the offer to create more episodes of 'Last Man Standing,' I did a fist pump so hard I threw my back out. It's the fans! I could not be more grateful for the fans who wrote petitions and kept up the passion and incredible support for the show."



PINETOP LAKESIDE, ARIZONA
MOUNTAIN MEADOW PARK | 1101 N. WOODLAND RD.

JULY 28, 2018

VE Testing @ 9am
Talk-In Frequency 146.760 - pl 162.2
Refreshments Available



Parking Free | Vendors \$10/space

PRIZE DRAWINGS

SANCTIONED
EVENT



HOURLY & GRAND

Maps and more information at - <http://kachinaarc.org/>



Cooking up
Some Magic



Basil Chicken with Roasted Tomatoes

Prep Time: 15 min
Total Time: 45 min
Servings: 4

Serve a Healthy Living basil chicken dish at dinnertime tonight! Basil Chicken with Roasted Tomatoes is filled with mozzarella for a melty cheese taste.



What You Need

4 small boneless skinless chicken breasts (1 lb.)
12 large fresh basil leaves, divided
2 oz. KRAFT Mozzarella Cheese, cut into 4 slices
4 large oil-packed sun-dried tomatoes, drained
1/4 cup KRAFT Balsamic Vinaigrette Dressing, divided
2-1/4 cups grape tomatoes, halved

Make It

1. Heat oven to 400°F.
2. Make cut in one long side of each chicken breast, being careful to not cut through to opposite side. Fill each pocket with 2 basil leaves and 1 each cheese slice and sun-dried tomato.
3. Place chicken on one side of rimmed baking sheet sprayed with cooking spray; add tomatoes to other side of baking sheet. Brush chicken evenly with 1 Tbsp. dressing.
4. Bake 30 min. or until chicken is done (165°F).
5. Cut remaining basil leaves into thin slices. Top tomatoes with basil and remaining dressing; toss lightly. Serve chicken topped with tomato mixture.

